

**ABSTRACT OF DISCLOSURE**

New chemotherapeutic medicaments and certain medical uses and methods for use of such chemotherapeutic medicaments for treatment of disease in human or animal tissue are described, wherein a primary active component of such medicaments is a halogenated xanthene or halogenated xanthene derivative. Preferably, the halogenated xanthene is Rose Bengal or a functional derivative of Rose Bengal. The halogenated xanthenes constitute a family of useful chemotherapeutic agents that afford selective, persistent accumulation in certain tissues. In preferred embodiments, such medicaments are used for treatment of a variety of conditions affecting the skin and related organs, the mouth and digestive tract and related organs, the urinary and reproductive tracts and related organs, the respiratory tract and related organs, the circulatory system and related organs, the head and neck, the endocrine and lymphoreticular systems and related organs, various other tissues, such as connective tissues and various tissue surfaces exposed during surgery, as well as various tissues exhibiting microbial or parasitic infection. In another preferred embodiment, such medicaments are produced in various formulations useful for intracorporeal or topical administration, including in liquid, semisolid, solid or aerosol delivery vehicles.

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